

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2803	(345/583-607).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/02/14 13:48
L2	806	1 and @pd>"20030203"	US-PGPUB; USPAT; USOCR	OR	ON	2005/02/14 13:50
L3	98	"reflectance map" or "reflectance mapping"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/14 13:58
L8	97	specular and ("environment map" or "environment mapping")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/14 14:23
L9	25	specular with ("environment map" or "environment mapping")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/14 14:23
L11	36	specular and ("reflectance map" or "reflectance mapping")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/02/14 14:59

9/708, 797

CiteSeer Find:

Searching for **environment map and specular and reflectance and texture and detail**.

Restrict to: [Header](#) [Title](#) [Order by:](#) [Expected citations](#) [Hubs](#) [Usage](#) [Date](#) Try: [Google \(CiteSeer\)](#) [Google \(Web\)](#) [Yahoo!](#) [MSN](#) [CSB](#) [DBLP](#)

4 documents found. Order: number of citations.

[Homomorphic Factorization of BRDF-based Lighting Computation - Latta, Kolb \(2002\) \(Correct\) \(3 citations\)](#)
as a generalized approach to several **environment map** prefiltering techniques. Existing elevation. This technique stores the diffuse and **specular** terms in separate **textures**. Additionally a have been developed to approximate Bidirectional **Reflectance** Distribution Functions (BRDF) with acceptable
www.2ld.de/diplom/HFLCSiggraph.pdf

One or more of the query terms is very common - only partial results have been returned. Try [Google \(CiteSeer\)](#).

[Vol. 7, No. 4:3-8 - Simple Blurry Reflections \(Correct\)](#)

7, No. 4:3-8 Simple Blurry Reflections with **Environment Maps** Michael Ashikhmin and Abhijeet Ghosh SUNY capabilities to approximate the effect of blurry **specular** reflections and indirect diffuse illumination. reflection behavior using the bidirectional **reflectance** distribution function (BRDF)They then use
www.cs.sunysb.edu/~ash/blurry.pdf

[Realistic Materials and Lighting in Real-Time Rendering - Latta \(2001\) \(Correct\)](#)

parabolic, right: cube map) 49 ure 12: **Environment maps** (Loch, Desert, painted light sources)
55 ure 15: Result of glossy **environment map** with **specular** Phong model .55 ure 16:
9 2.3 Bidirectional **Reflectance** Distribution Function (BRDF)
www.2ld.de/diplom/RealisticMaterialsDiplomaThesis.pdf

Try your query at: [Google \(CiteSeer\)](#) [Google \(Web\)](#) [Yahoo!](#) [MSN](#) [CSB](#) [DBLP](#)

CiteSeer.IST - Copyright Penn State and NEC

9 / 708, 797

h c e ee e c e e ec ef ec ce e


[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)
[Search: The ACM Digital Library](#) [The Guide](#)


[Feedback](#) [Report a problem](#) [Satisfaction survey](#)

 Terms used specular reflectance map and texture and detail

Found 3,407 of 150,138

Sort results by

 relevance
 Save results to a Binder

 Try an Advanced Search

Display results

 expanded form
 Search Tips

 Try this search in The ACM Guide

 Open results in a new window

Results 1 - 20 of 200

 Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

Best 200 shown

 Relevance scale

1 Level-of-detail volume rendering via 3D textures

 Manfred Weiler, Rüdiger Westermann, Chuck Hansen, Kurt Zimmermann, Thomas Ertl
 October 2000 **Proceedings of the 2000 IEEE symposium on Volume visualization**

 Full text available: [pdf\(1.04 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


2 Session 7: rendering: Detail synthesis for image-based texturing

 Ryan M. Ismert, Kavita Bala, Donald P. Greenberg
 April 2003 **Proceedings of the 2003 symposium on Interactive 3D graphics**

 Full text available: [pdf\(3.31 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Image-based modeling techniques permit the creation of visually interesting geometric models from photographs. But traditional image-based texturing (IBT) techniques often result in extracted textures of poor, uneven quality. This paper introduces a novel technique to improve the quality of image-based textures. We compute a simple and efficient texture quality metric based on the Jacobian of the imaging transform. We identify the correlation between the values of the Jacobian metric and the lev ...

Keywords: image-based modeling, texture mapping

3 Shading, surfaces, and collision detection: Automatic shader level of detail

 Marc Olano, Bob Kuehne, Maryann Simmons
 July 2003 **Proceedings of the ACM SIGGRAPH/EUROGRAPHICS conference on Graphics hardware**

 Full text available: [pdf\(2.69 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Current graphics hardware can render procedurally shaded objects in real-time. However, due to resource and performance limitations, interactive shaders can not yet approach the complexity of shaders written for film production and software rendering, which may stretch to thousands of lines. These constraints limit not only the complexity of a single shader, but also the number of shaded objects that can be rendered at interactive rates. This problem has many similarities to the rendering of lar ...

Keywords: computer games, hardware systems, interactive rendering, languages, level of detail, multi-pass rendering, procedural shading, reflectance & shading models, rendering systems, simplification

9/208, 797


[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)
Search: The ACM Digital Library The Guide

environment map and specular and reflectance and texture and detail

SEARCH
[Feedback](#) [Report a problem](#) [Satisfaction survey](#)

Terms used

[environment map](#) and [specular](#) and [reflectance](#) and [texture](#) and [detail](#)

Found 32,012 of 150,138

Sort results
by
 [Save results to a Binder](#)
[Try an Advanced Search](#)
Display
results
 [Search Tips](#)
[Try this search in The ACM Guide](#)
 [Open results in a new window](#)

Results 1 - 20 of 200

Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

Best 200 shown

Relevance scale

1 [Shading and shaders: Efficient rendering of spatial bi-directional reflectance distribution functions](#)

David K. McAllister, Anselmo Lastra, Wolfgang Heidrich

September 2002 **Proceedings of the ACM SIGGRAPH/EUROGRAPHICS conference on Graphics hardware**Full text available: [pdf\(2.80 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We propose texture maps that contain at each texel all the parameters of a Lafortune representation BRDF as a compact, but quite general surface appearance representation. We describe a method for rendering such surfaces rapidly on current graphics hardware and demonstrate the method with real, measured surfaces and hand-painted surfaces. We also propose a method of rendering such spatial bi-directional reflectance distribution functions using prefiltered environment maps. Only one set of maps is ...

Keywords: graphics hardware, reflectance & shading models, rendering hardware, texture mapping

2 [Frequency space environment map rendering](#)

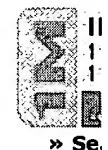
Ravi Ramamoorthi, Pat Hanrahan

July 2002 **ACM Transactions on Graphics (TOG) , Proceedings of the 29th annual conference on Computer graphics and interactive techniques**, Volume 21 Issue 3Full text available: [pdf\(3.37 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a new method for real-time rendering of objects with complex isotropic BRDFs under distant natural illumination, as specified by an environment map. Our approach is based on spherical frequency space analysis and includes three main contributions. Firstly, we are able to theoretically analyze required sampling rates and resolutions, which have traditionally been determined in an ad-hoc manner. We also introduce a new compact representation, which we call a *spherical harmonic reflect* ...

Keywords: complexity analysis, environment maps, image-based rendering, signal-processing, spherical harmonics

3 [Image-based reconstruction of spatial appearance and geometric detail](#)



Welcome to IEEE Xplore®

- Home
- What Can I Access?
- Log-out

Tables of Contents

- Journals & Magazines
- Conference Proceedings
- Standards

Search

- By Author
- Basic
- Advanced
- CrossRef

Member Services

- Join IEEE
- Establish IEEE Web Account
- Access the IEEE Member Digital Library

IEEE Enterprise

- Access the IEEE Enterprise File Cabinet



Your search matched **6 of 1128145** documents.
A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance Descending** order.

Refine This Search:

You may refine your search by editing the current search expression or enter a new one in the text box.

Check to search within this result set

Results Key:

JNL = Journal or Magazine **CNF** = Conference **STD** = Standard

1 Recovery of 3-D shape using hybrid reflectance model

Eunjin Jung; Il Dong Yun; Sang Uk Lee;
Image Processing, 1994. Proceedings. ICIP-94., IEEE International Conference , Volume: 2 , 13-16 Nov. 1994
Pages:120 - 124 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(284 KB\)\]](#) **IEEE CNF**

2 A probabilistic framework for specular shape-from-shading

Ragheb, H.; Hancock, E.R.;
Pattern Recognition, 2002. Proceedings. 16th International Conference on , Volume: 3 , 11-15 Aug. 2002
Pages:513 - 516 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(337 KB\)\]](#) **IEEE CNF**

3 Shape from shading for non-Lambertian surfaces from one color image

Ying-li Tian; Tsui, H.T.;
Pattern Recognition, 1996., Proceedings of the 13th International Conference on , Volume: 1 , 25-29 Aug. 1996
Pages:258 - 262 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(376 KB\)\]](#) **IEEE CNF**

4 Estimating the surface radiance function from single images

Robles-Kelly, A.; Hancock, E.R.;
3D Data Processing, Visualization and Transmission, 2004. 3DPVT 2004. Proceedings. 2nd International Symposium on , 6-9 Sept. 2004
Pages:494 - 501

9/708,797